

SECURITY INFORMATION

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24 November 1953

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## MEMORANDUM FOR THE RECORD

SUBJECT: Meeting with [ ] at Washington  
re Progress on P-101, Communication System, Infra  
Red, RD-54, Task I, 20 November 1953

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## 1. Attendance:

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## 2. Discussion:

a. [ ] estimated that the following sizes and weights can be achieved while obtaining the following ACW (average clear weather) ranges:

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| Size             | Weight Dry | Fuel for 9 hrs. | ACW Range |
|------------------|------------|-----------------|-----------|
| → 12" x 18" x 8" | 14 lbs.    | 4.3 lbs.        | 6 miles   |
| 18" x 24" x 10"  | 35 lbs.    | 8.6 lbs.        | 10 miles  |

The sizes given above are for one unit of a balanced system using two similar units. [ ] stated that a passive unit could be used with one of the above units with reduced range. The size of the passive unit is to be about 10" x 10" x 4".

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b. Presently, [ ] is planning to use a beam modulated tungsten source in the equipment.

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c. It was stated by APD that the present development effort should be that of a balanced system rather than an unbalanced system using one passive unit.

d. Regarding the problem of the [ ] generator:

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(1) The situation regarding the Commo developed unit, [ ] was clarified.

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(2) APD agreed that 100 hrs. continuous generator life is a sufficient figure for which to design.

(3) APD will

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(3) APD will determine what arrangements will be made regarding ownership of any small generators developed under this project.

3. ACTIONS:

a. APD should determine what compromise should be made between range, size and weight, as estimated in 2.a.

b. APD should determine what course should be taken regarding final ownership of any motor generator designed.



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TSS/APD

AST:hvm

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